

Listing of the Claims

This listing of claims supersedes all previous listings of claims.

1. (Previously Presented) A method for extracting biological material from a bacterial spore, the method comprising the steps of:

a) providing a sample chamber and a first and a second electrode, the first and the second electrode and the sample chamber being so positioned that at least a part of the sample chamber is between the first and the second electrode, said sample chamber having a volume of at most 500 μ L,

b) providing a liquid sample in the sample chamber, which liquid sample comprises a bacterial spore,

c) exposing said liquid sample to an alternating electric field in said sample chamber, said alternating electric field being provided by the first and the second electrode and having a sufficient amplitude so as to extract biological material from the bacterial spore, and

d) performing an analysis on a part of the exposed liquid sample, said part comprising extracted biological material from the bacterial spore.

2. (Currently Amended) The method according to claim 1, wherein the first and ~~[[a]]~~ the second electrode are separated by a distance being at the most 20 mm.

3. (Previously Presented) The method according to claim 1, wherein the bacterial spore is either attached to and/or located between the first and the second electrode.

4. (Currently Amended) The method according to claim 1, wherein the frequency of the alternating electric field is at ~~[[the]]~~ least 5 kHz.

5. (Previously Presented) The method according to claim 4, wherein the frequency of the alternating electric field is at the least 100 kHz.

6. (Currently Amended) The method according to claim 1, wherein the alternating electric field is created by modulating the polarity of the first and the second electrode.

7. (Previously Presented) The method according to claim 1, wherein the alternating electric field has a form chosen from the group consisting of: rectangular, sinusoidal, saw-tooth, asymmetrical triangular, symmetric triangular; or any combination thereof.

8. (Previously Presented) The method according to claim 1, wherein the alternating electric field, in the frequency domain, comprises at least a first and a second frequency component.

9. (Previously Presented) The method according to claim 1, wherein the biological material comprises a component selected from the group consisting of a cell organelle, a genetic material, and a protein.

10. (Previously Presented) The method according to claim 9, wherein the genetic material comprises chromosomal DNA and/or plasmid DNA and/or any type of RNA.

11. (Previously Presented) The method according to claim 9, wherein the protein is selected from the group consisting of enzymes, structural proteins, transport proteins, ion channels, toxins, hormones, and receptors.

12. (Cancelled)

13. (Cancelled)

14. (Previously Presented) The method according to claim 1, wherein the bacterial spore is selected from the genus *Bacillus* and/or the genus *Clostridium*.

15. (Previously Presented) The method according to claim 1, wherein the bacterial spore is from the *Bacillus* group.

16. (Previously Presented) The method according to claim 15, wherein the ~~bacterium~~ bacterial spore is *Bacillus anthracis*.

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)